

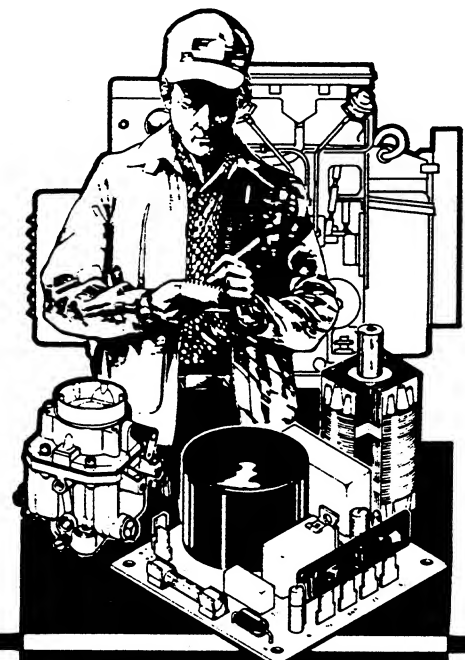
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# Onan

## Parts Manual

### YD

### Alternators Single-Bearing



**Onan Service Parts**

929-0200

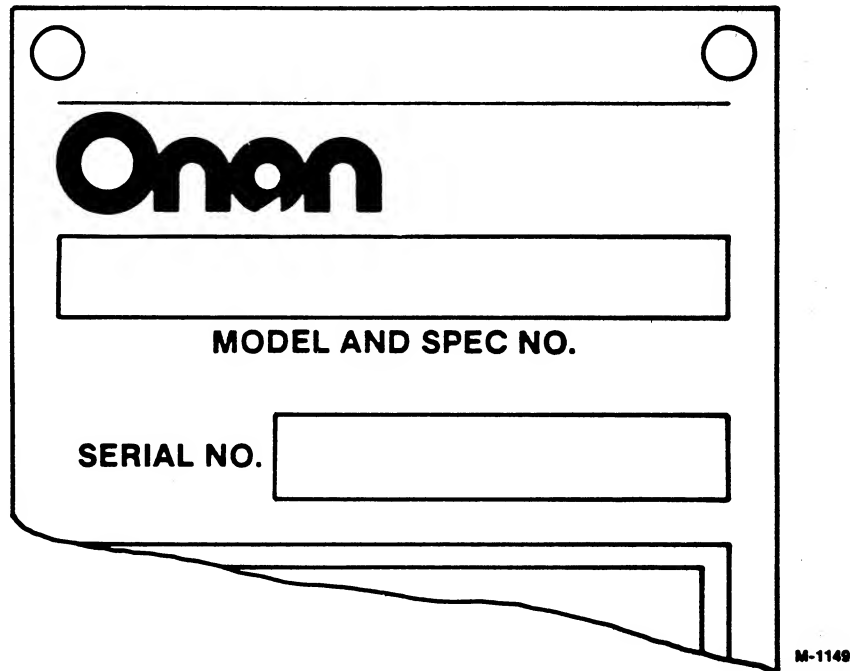
2-86 (SPEC AA)

Printed in U.S.A.

## General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your **Nearest Authorized Onan Parts and Service Center.**

To avoid errors or delay in filling your parts order, always give the **MODEL, SPEC NO. and SERIAL NO.** from the Onan nameplate.



A rectangular form with rounded corners and two circular punch holes at the top. The Onan logo is prominently displayed in the upper left. Below the logo is a large rectangular box for the model and specification number. Further down, the label 'SERIAL NO.' is followed by another rectangular box for the serial number. The bottom right corner of the form is folded over, revealing a second identical form underneath. The identifier 'M-1149' is printed at the bottom right of the form.

**Onan**

**MODEL AND SPEC NO.**

**SERIAL NO.**

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

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## Introduction

This Parts Manual applies to the Standard Units Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Unit are determined by FACING the FRONT or input end of the Unit. (Ref: Fan and Drive Disk).

### Unit Data Table

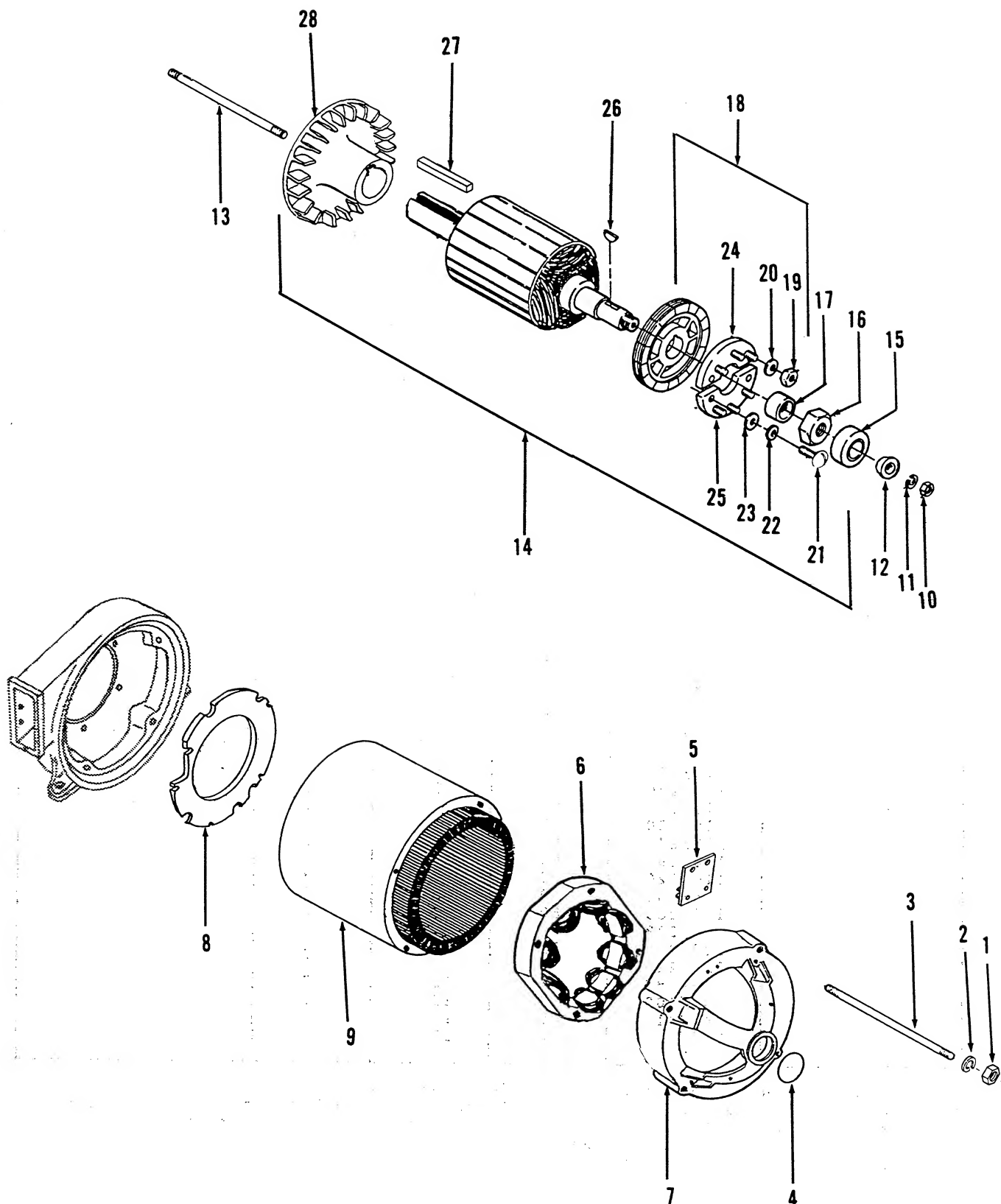
MODEL IDENTIFICATION	RATING	MODEL IDENTIFICATION	RATING
6.0 YD - */ # @	6,000 WATTS	16.0 YD - */ # @	16,000 WATTS
7.5 YD - */ # @	7,500 WATTS	17.5 YD - */ # @	17,500 WATTS
8.0 YD - */ # @	8,000 WATTS	20.0 YD - */ # @	20,000 WATTS
10.0 YD - */ # @	10,000 WATTS	25.0 YD - */ # @	25,000 WATTS
12.0 YD - */ # @	12,000 WATTS	30.0 YD - */ # @	30,000 WATTS
12.5 YD - */ # @	12,500 WATTS	40.0 YD - */ # @	40,000 WATTS
15.0 YD - */ # @	15,000 WATTS		

### Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
3	120/240	60	3	1	+
9	347/600	60	4	3	
18	120/240	60	12	1	
	120/208	60	12	3	
	120/240	60	12	3	
	127/220	60	12	3	
	139/240	60	12	3	
	240/416	60	12	3	
	254/440	60	12	3	
	277/480	60	12	3	
53	110/220	50	3	1	+
	115/230	50	3	1	
	120/240	50	3	1	
518	110/220	50	12	1	
	115/230	50	12	1	
	120/240	50	12	1	
	110/190	50	12	3	
	110/220	50	12	3	
	115/200	50	12	3	
	115/230	50	12	3	
	120/208	50	12	3	
	120/240	50	12	3	
	127/220	50	12	3	
	220/380	50	12	3	
	230/400	50	12	3	
	240/416	50	12	3	
	254/440	50	12	3	

- \* - Voltage Codes follow Model Letter designations.
- # - Specification Number: Number 1 is Standard, all others indicate variations.
- @ - Specification Letter: Letter advances ( A to B, B to C, etc) with major manufacturing changes.
- + - The Stators are Reconnectible.

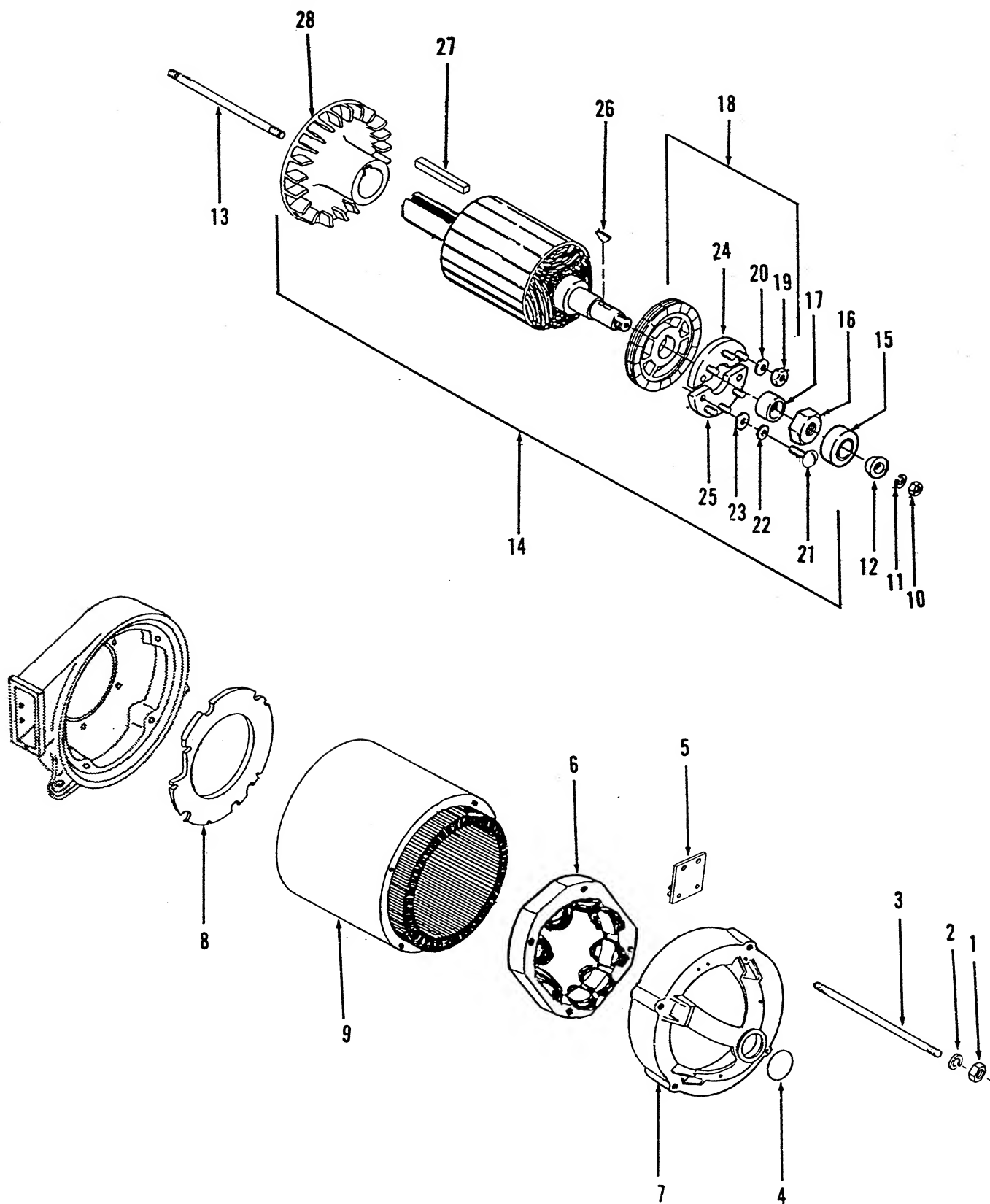
Alternator  
6 kW Through 8 kW  
With Through Stud Mounting



**Alternator  
6 kW Through 8 kW  
With Through Stud Mounting**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0011	4	Nut, Hex (3/8-16)	11	850-0055	1	Washer, Lock - Spring(7/16")
2	850-0050	4	Washer, Lock - Spring (3/8")	12	232-0200	1	Washer, Concial (Special)
3			Stud (3/8-16)	13			Stud (7/16-14 x 7/16-20 )
	520-0794	4	7-9/16" - 6 kW, Code 3, 18		520-0786	1	13-7/16" - 6 kW, Code 3, 18
	520-0795	4	8-1/4" - 6 kW, Code 53, 518				
	520-0795	4	8-1/4" - 6 kW, Code 18		520-0787	1	14-1/8" - 6 kW, Code 53, 518
			Extended Stack		520-0787	1	14-1/8" - 6 kW, Code 18
	520-0795	4	8-1/4" - 7.5 kW, Code 3, 18				Extended Stack
					520-0787	1	14-1/8" - 7.5 kW, Code 3, 18
	520-0796	4	8-13/16" - 7.5 kW, Code 18				
			Extended Stack		520-0788	1	14-11/16" - 7.5 kW, Code 18
	520-0796	4	8-13/16" 8 kW, Code 53, 518				Extended Stack
					520-0788	1	14-11/16" - 8 kW, Code 53, 518
4	509-0094	1	Seal, O-Ring				
5	232-2418	1	Board, Terminal	14			Rotor Assembly (Includes Fan, Bearing and Rotor Exciter)
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")		201-2155	1	6.0 kW, Code 518, 18
							Extended Stack
6			Stator, Exciter		201-2155	1	7.5 kW, Code 3, 18
	220-2009	1	Standard		201-2156	1	7.5 kW, Code 18 Extended
	220-2308	1	Environmental Protected				Stack
	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") Used through June 1983		201-2156	1	8.0 kW, Code 53, 518
				15	510-0112	1	Bearing, Ball
	802-0038	4	Screw, Cap - Socket Head (1/4-20 x 1-1/2") Begin July 1983	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)
				17	232-2398	1	Spacer, Sleeve
	850-0040	4	Washer, Lock - ET (1/4")	18			Rotor Assembly, Exciter (Includes Rectifiers)
	526-0260	2	Washer, Flat (3/8") Used through June 1983		201-2151	1	Standard
					201-2299	1	Environmental Protected
7	211-0237	1	Bell, End	19	870-0131	8	Nut, Hex (#10-32)
8	234-0462	1	Baffle, Air	20	526-0008	8	Washer, Flat (#10)
9			Stator	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
	220-2014	1	6 kW, Code 3				
	220-2023	1	6 kW, Code 53	22	853-0008	4	Washer, Lock - ET (#10)
	220-2039	1	6 kW, Code 18	23	526-0008	4	Washer, Flat (#10)
	220-2040	1	6 kW, Code 18 Extended	24	358-0069	1	Rectifier Assembly - Positive
			Stack				
	220-2048	1	6 kW, Code 518	25	358-0070	1	Rectifier Assembly - Negative
	220-2015	1	7.5 kW, Code 3				
	220-2040	1	7.5 kW, Code 18	26	515-0094	1	Key, Woodruff (#6)
	220-2041	1	7.5 kW, Code 18 Extended	27	515-0103	1	Key, Machine
			Stack	28	205-0105	1	Fan
	220-2024	1	8.0 kW, Code 53				
	220-2048	1	8.0 kW, Code 518				

Alternator  
10 kW Through 15 kW  
With Through Stud Mounting

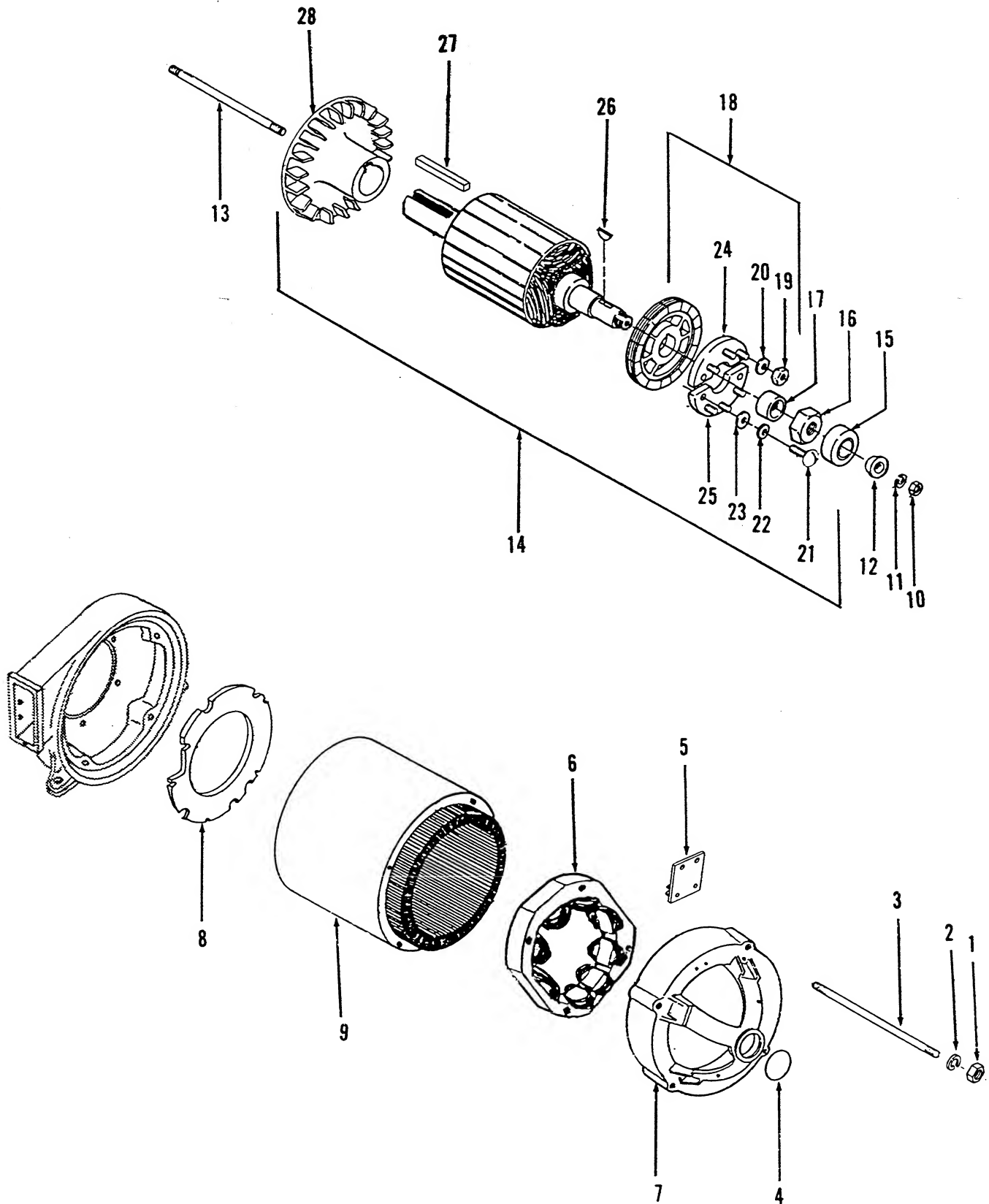




**Alternator  
10 kW Through 15 kW  
With Through Stud Mounting**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0011	4	Nut, Hex (3/8-16)	11	850-0055	1	Washer, Lock - Spring(7/16")
2	850-0050	4	Washer, Lock - Spring (3/8")	12	232-0200	1	Washer, Concial (Special)
3			Stud (3/8-16 )	13			Stud (7/16-14 x 7/17-20
	520-0796	4	8-13/16" 10 kW, Code 3, 18		520-0788	1	14-11/16" 10 kW, Code 3, 18
	520-0797	4	9-15/16" 10 kW, Code 53, 518		520-0789	1	15-9/16" 10 kW, Code 53, 518
	520-0797	4	9-15/16" 10 kW, Code 18		520-0789	1	15-9/16" 10 kW, Code 18
			Extended Stack				Extended Stack
	529-0797	4	9-15/16" 12.5 kW, Code 3, 18		520-0789	1	15-9/16" 12.5 kW, Code 3, 18
	520-0798	4	10-5/8" 12.5 kW, Code 53, 518		520-0790	1	16-1/4" 12.5 kW, Code 53, 518
	520-0798	4	10-5/8" 12.5 kW, Code 18		520-0790	1	16-1/4" 12.5 kW, Code 18
			Extended Stack				Extended Stack
	520-0798	4	10-5/8" 15 kW, Code 3, 18		520-0790	1	16-1/4" 15 kW, Code 3, 18
	520-0799	4	11-3/8" 15 kW, Code 53, 518		520-0791	1	17" 15 kW, Code 53, 518
	520-0799	4	11-3/8" 15 kW, Code 18		520-0791	1	17" 15 kW, Code 18 Extended
			Extended Stack				Stack
4	509-0094	1	Seal, O-Ring	14			Rotor Assembly (Includes Fan, Bearing and Rotor Exciter)
5	232-2418	1	Board, Terminal		201-2156	1	10 kW, Code 3, 18
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")		201-2157	1	10 kW, Code 518, 18 Extended Stack
6			Stator, Exciter		201-2157	1	12.5 kW, Code 3, 18
			Standard		201-2158	1	12.5 kW, Code 518, 18
	220-2009	1	Standard				Extended Stack
	220-2308	1	Environmental Protected		201-2158	1	15 kW, Code 3, 18
	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") Used through June 1983		201-2159	1	15 kW, Code 18 Extended Stack
	802-0038	4	Screw, Cap - Socket Head (1/4-20 x 1-1/2") Begin July 1983	15	510-0112	1	Bearing, Ball
	850-0040	4	Washer, Lock - ET (1/4")	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)
	526-0260	2	Washer, Flat (3/8") Used through June 1983	17	232-2398	1	Spacer, Sleeve
7	211-0237	1	Bell, End	18			Rotor Assembly, Exciter (Includes Rectifiers)
8	234-0462	1	Baffle, Air		201-2151	1	Standard
9			Stator		201-2299	1	Environmental Protected
	220-2016	1	10 kW, Code 3	19	870-0131	8	Nut, Hex (#10-32)
	220-2041	1	10 kW, Code 18	20	526-0008	8	Washer, Flat (#10)
	220-2042	1	10 kW, Code 18 Extended Stack	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
	220-2050	1	10 kW, Code 518	22	853-0008	4	Washer, Lock - ET (#10)
	220-2017	1	12.5 kW, Code 3	23	526-0008	4	Washer, Flat (#10)
	220-2026	1	12.5 kW, Code 53	24	358-0069	1	Rectifier Assembly - Positive
	220-2042	1	12.5 kW, Code 18	25	358-0070	1	Rectifier Assembly - Negative
	220-2043	1	12.5 kW, Code 18 Extended Stack	26	515-0094	1	Key, Woodruff (#6)
	220-2018	1	15 kW, Code 3	27	515-0103	1	Key, Machine
	220-2043	1	15 kW, Code 18	28	205-0105	1	Fan
	220-2044	1	15 kW, Code 18 Extended Stack				

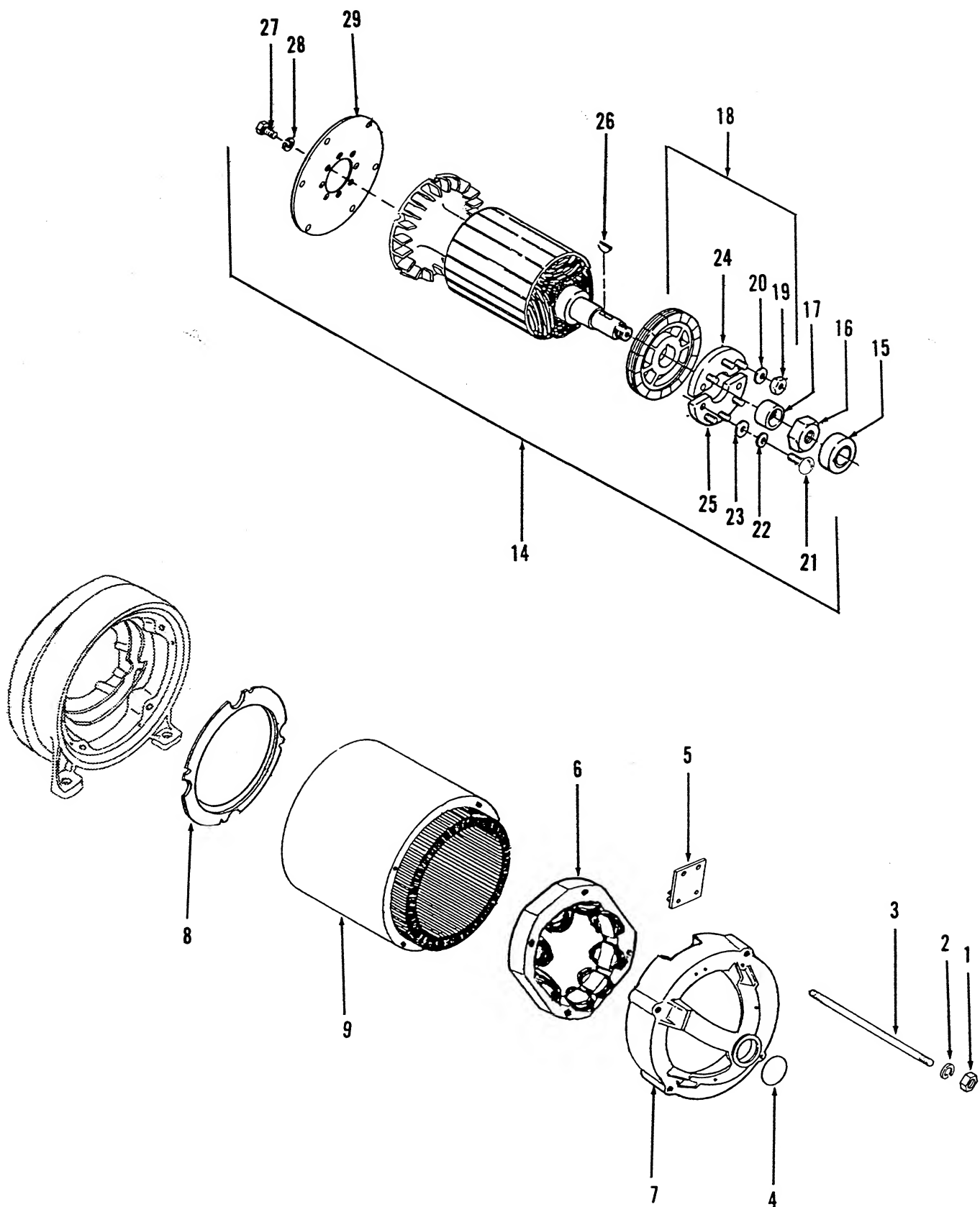
Alternator  
16 kW Through 30 kW  
With Through Stud Mounting



**Alternator  
16 kW Through 30 kW  
With Through Stud Mounting**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0011	4	Nut, Hex (3/8-16)	11	850-0055	1	Washer, Lock - Spring(7/16")
2	850-0050	4	Washer, Lock - Spring (3/8")	12	232-0200	1	Washer, Concial (Special)
3			Stud (3/8-16 )	13			Stud (7/16-14 x 7/17-20
	520-0799	4	11-3/8" 17.5 kW, Code 3, 18		520-0791	1	17" 17.5 kW, Code 3, 18
	520-0800	4	12-5/8" 16 kW, Code 53, 518		520-0792	1	18-1/4" 16 kW, Code 53, 518
	520-0800	4	12-5/8" 20 kW, Code 3, 18		520-0792	1	18-1/4" 20 kW, Code 3, 18
	520-0801	4	14-3/16" 25 kW, Code 3		520-0858	1	19-7/8" 25 kW, Code 3
	520-0802	4	15-3/4" 30 kW, Code 3		526-0965	1	20-5/8" 30 kW, Code 3
4	509-0094	1	Seal, O-Ring	14			Rotor Assembly (Includes Fan, Bearing and Rotor Exciter)
5	232-2418	1	Board, Terminal		201-2160	1	16 kW, Code 53, 518
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")		201-2159	1	17.5 kW, Code 3, 18
6			Stator, Exciter		201-2160	1	20 kW, Code 3, 18
	220-2009	1	16 kW - 20 kW		201-2446	1	25 kW, Code 3
	220-2010	1	25 kW - 30 kW		201-2160	1	25 kW, Code 18
	220-2308	1	16 kW - 20 kW Enviromental Protected		201-2447	1	30 kW, Code 3
	220-2309	1	25 kW - 30 kW Enviromental Protected	15	510-0112	1	Bearing, Ball
	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") Used through June 1983	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)
	802-0038	4	Screw, Cap - Socket Head (1/4-20 x 1-1/2") Begin July 1983	17	232-2398	1	Spacer, Sleeve
	850-0040	4	Washer, Lock - ET (1/4")	18			Rotor Assembly, Exciter (Includes Rectifiers)
	526-0260	2	Washer, Flat (3/8") Used through June 1983		201-2151	1	16 kW - 20 kW, all codes
7	211-0237	1	Bell, End		201-2151	1	25 kW, Code 18
8	234-0462	1	Baffle, Air		201-2152	1	25 kW - 30 kW, Code 3
9			Stator		201-2299	1	16 kW - 20 kW Enviromental Protected
	220-2028	1	16 kW, Code 53		201-2299	1	25 kW, Code 18 Enviromental Protected
	220-2053	1	16 kW, Code 518		201-2298	1	25 kW - 30 kW, Code 3 Enviromental Protected
	220-2019	1	17.5 kW, Code 3	19	870-0131	8	Nut, Hex (#10-32)
	220-2044	1	17.5 kW, Code 18	20	526-0008	8	Washer, Flat (#10)
8	220-2020	1	20 kW, Code 3	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
	220-2045	1	20 kW, Code 18	22	853-0008	4	Washer, Lock - ET (#10)
	220-4116-06	1	25 kW, Code 3	23	526-0008	4	Washer, Flat (#10)
	220-2045	1	25 kW, Code 18	24	358-0069	1	Rectifier Assembly - Positive
	220-4116	1	30 kW, Code 3	25	358-0070	1	Rectifier Assembly - Negative
				26	515-0094	1	Key, Woodruff (#6)
				27	515-0103	1	Key, Machine
				28	205-0105	1	Fan

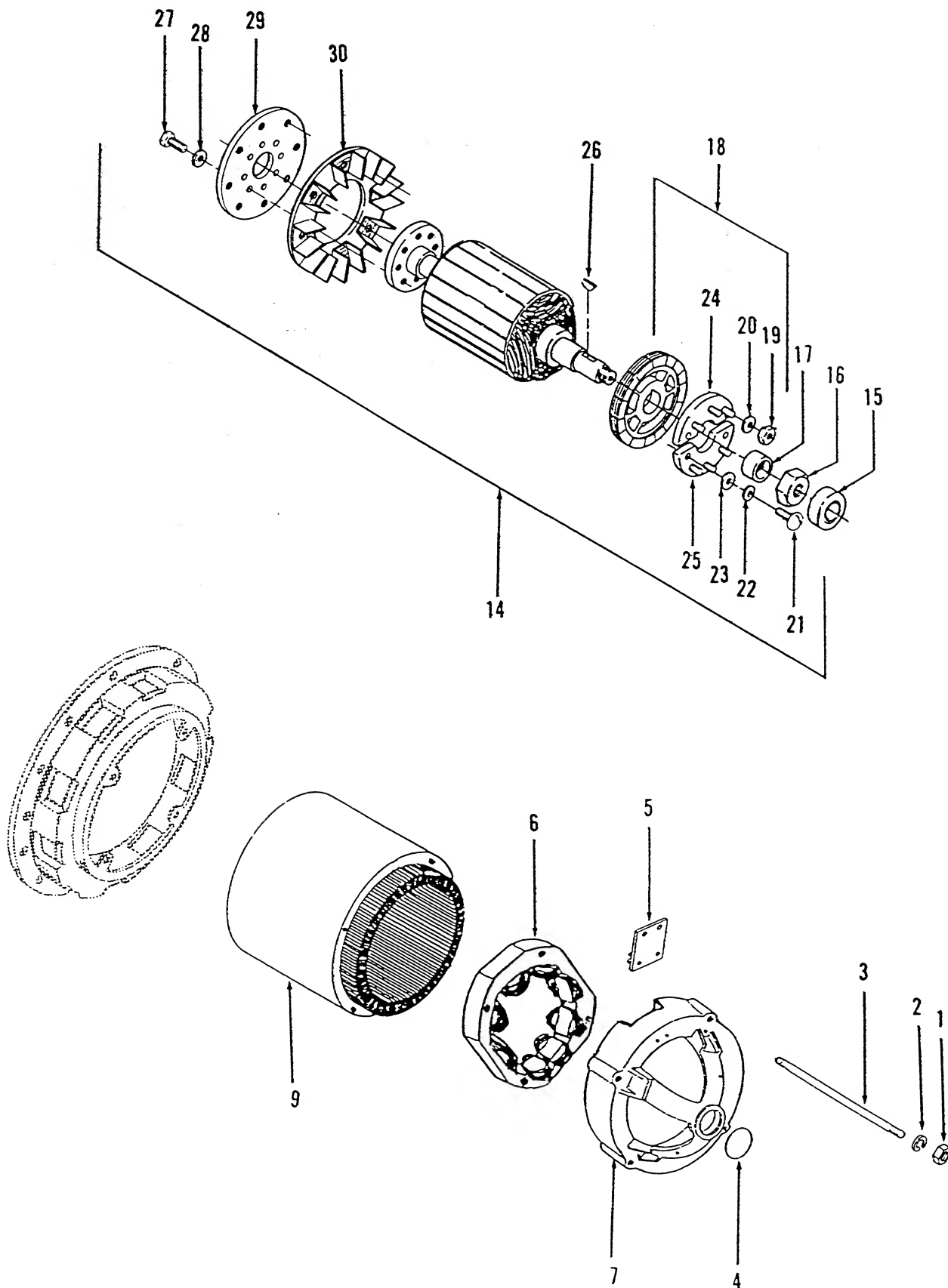
# Alternator With Integral Fan and Disk Drive



# **Alternator With Integral Fan and Disk Drive**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0011	4	Nut, Hex (3/8-16)	14	201-3280	1	Rotor Assembly - 10 kW, Code 3 (Includes Fan, Bearing and Exciter Rotor)
2	850-0050	4	Washer, Lock - Spring (3/8")	15	510-0112	1	Bearing, Ball
3	520-0796	1	Stud (3/8-16 UNC x 8-13/16")	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)
4	509-0094	1	Seal, O-Ring	17	232-2398	1	Spacer, Sleeve
5	232-2418	1	Board, Terminal	18			Rotor Assembly, Exciter (Includes Rectifiers)
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")		201-2151	1	Standard
6			Stator, Exciter		201-2299	1	Environmental Protected
	220-2009	1	Standard	19	870-0131	8	Nut, Hex (#10-32)
	220-2308	1	Environmental Protected	20	526-0008	8	Washer, Flat (#10)
	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") Used through June 1983	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
	802-0038	4	Screw, Cap - Socket Head (1/4-20 x 1-1/2") Begin July 1983	22	853-0008	4	Washer, Lock - ET (#10)
	850-0040	4	Washer, Lock - ET (1/4")	23	526-0008	4	Washer, Flat (#10)
	526-0260	2	Washer, Flat (3/8") Used through June 1983	24	358-0069	1	Rectifier Assembly - Positive
7	211-0256	1	Bell, End	25	358-0070	1	Rectifier Assembly - Negative
8	234-0519	1	Baffle, Air	26	515-0094	1	Key, Woodruff (#6)
9	220-2016	1	Stator - 10 kW, Code 3	27	805-0015	6	Bolt, Hex Head (3/8-16 x 3/4", Grade 8)
				28	526-1030	6	Washer, Flat (3/8")
				29	232-2826	1	Disk, Drive

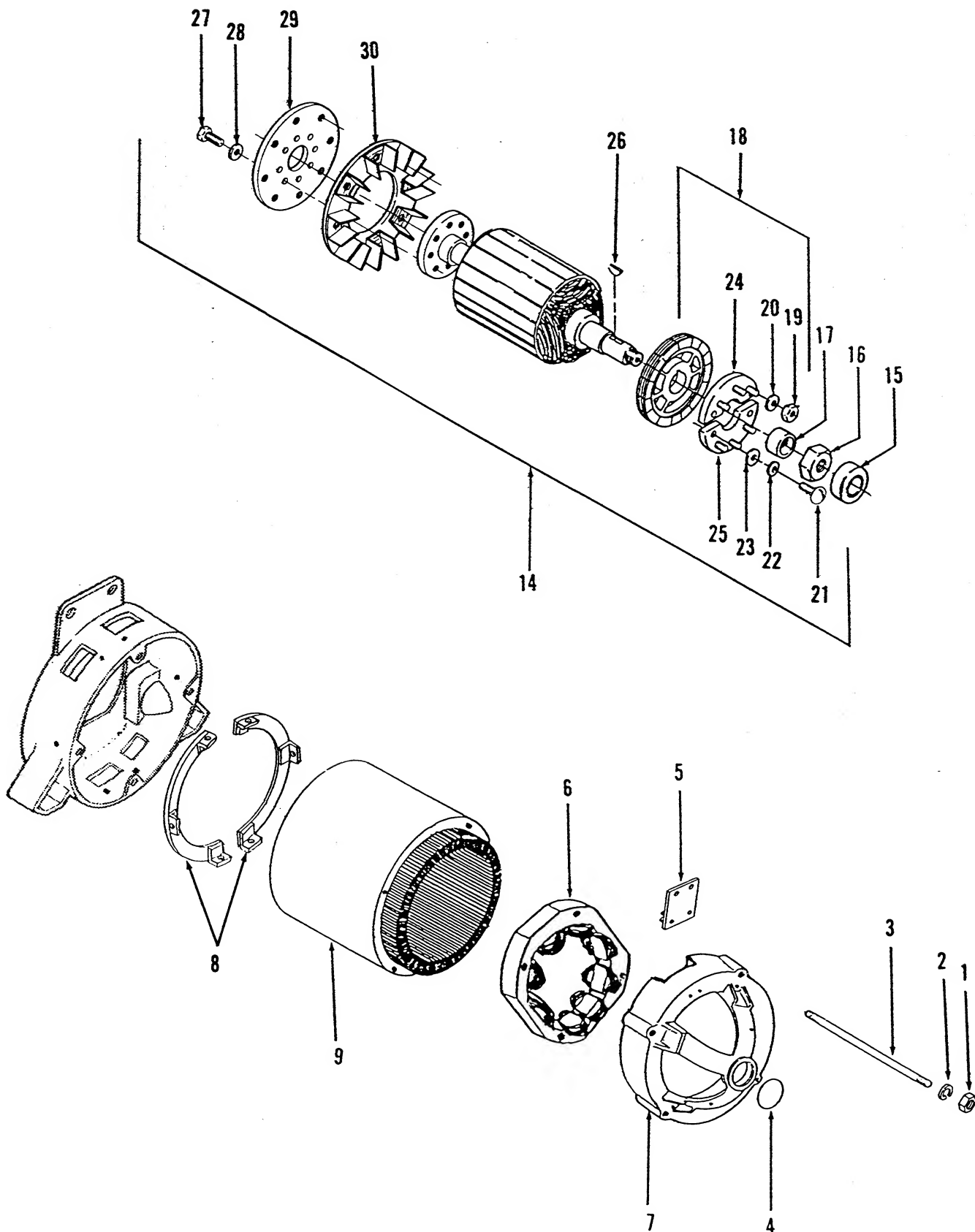
Alternator  
With Fan and Disk Drive  
(Used With SAE #2 to SAE #1 Adapter)



**Alternator  
With Fan and Disk Drive  
(Used With SAE #2 to SAE #1 Adapter)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0011	4	Nut, Hex (3/8-16)	14	201-2206	1	Rotor Assembly - 25 kW, Code 18 Extended Stack
2	850-0050	4	Washer, Lock - Spring (3/8")				(Includes Fan, Bearing and Rotor Exciter)
3	520-0800	1	Stud (3/8-16 UNC x 12-5/8")	15	510-0112	1	Bearing, Ball
4	509-0094	1	Seal, O-Ring	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)
5	232-2418	1	Board, Terminal	17	232-2398	1	Spacer, Sleeve
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")	18			Rotor Assembly, Exciter (Includes Rectifiers)
6			Stator, Exciter		201-2152	1	Standard
	220-2010	1	Standard		201-2298	1	Environmental Protected
	220-2309	1	Environmental Protected	19	870-0131	8	Nut, Hex (#10-32)
	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") Used through June 1983	20	526-0008	8	Washer, Flat (#10)
	802-0040	4	Screw, Cap - Socket Head (1/4-20 x 2") Begin July 1983	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
	850-0040	4	Washer, Lock - ET (1/4")	22	853-0008	4	Washer, Lock - ET (#10)
	526-0260	2	Washer, Flat (3/8") Used through June 1983	23	526-0008	4	Washer, Flat (#10)
				24	358-0069	1	Rectifier Assembly - Positive
7	211-0256	1	Bell, End	25	358-0070	1	Rectifier Assembly - Negative
9	220-2424	1	Stator - 25 kW, Code 18 Extended Stack	26	515-0094	1	Key, Woodruff (#6)
				27	805-0033	8	Bolt, Hex Head (5/8-11 x 1", Grade 8)
				28	526-0259	8	Washer, Flat (5/8")
				29	232-2078	1	Disk, Drive
				30	205-0110	1	Fan

Alternator  
With Fan and Disk Drive  
(Used with Paired Air Baffles and Adapter)

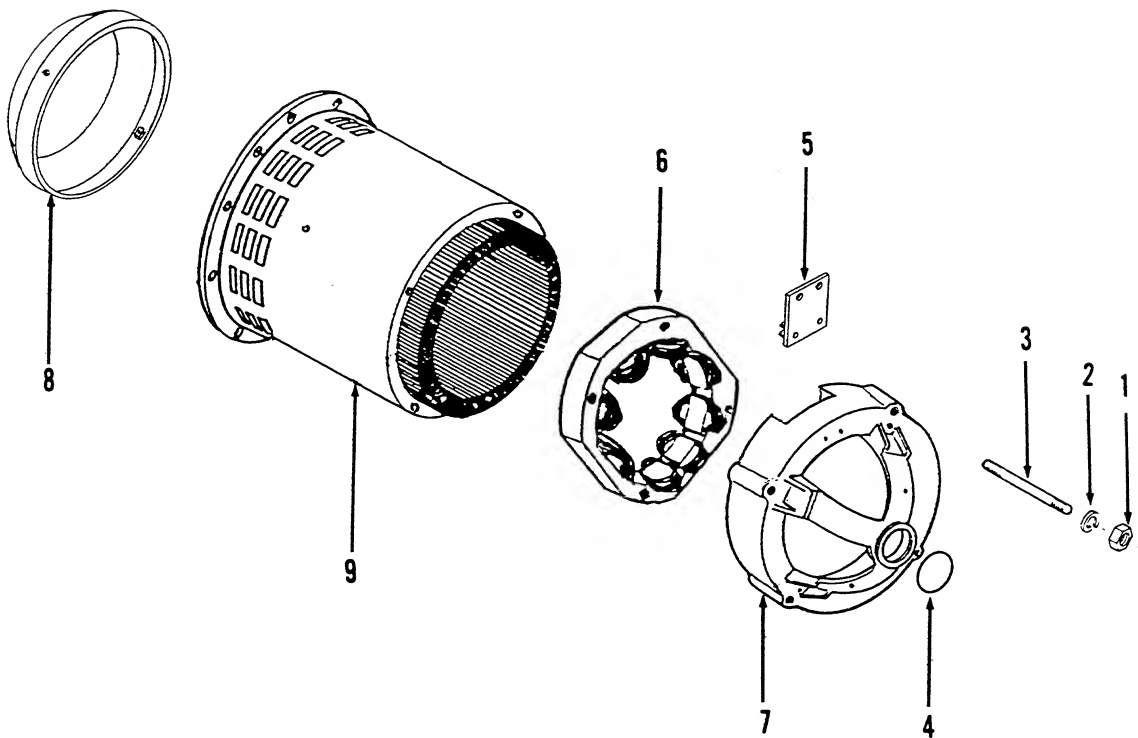
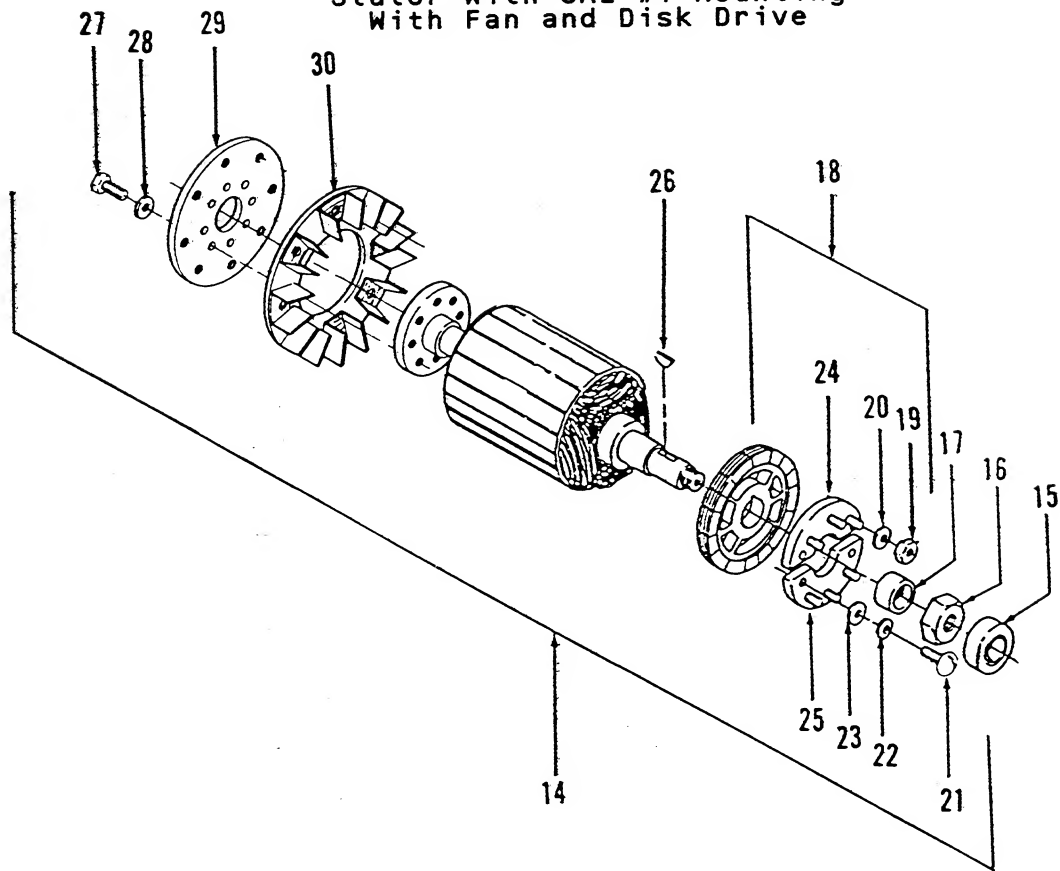




**Alternator  
With Fan and Disk Drive  
(Used with Paired Air Baffles and Adapter)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	862-0011	4	Nut, Hex (3/8-16)	14			Rotor Assembly (Includes Fan, Bearing and Rotor Exciter)	
2	850-0050	4	Washer, Lock - Spring (3/8")					
3			Stud (3/8-16 )	201-3058	1	12 kW, Code 518 Extended Stack		
	520-0799	4	11-3/8" 12 kW, Code 518 Extended Stack	201-3058	1	15 kW, Code 18 Extended Stack		
	520-0799	4	11-3/8" 15 kW, Code 18 Extended Stack	201-3059	1	25 kW, Code 518 Extended Stack		
	520-0802	4	15-3/4" 25 kW, Code 518 Extended Stack	201-3059	1	30 kW, Code 18 Extended Stack		
	520-0802	4	15-3/4" 30 kW, Code 18 Extended Stack	15	510-0112	1	Bearing, Ball	
4	509-0094	1	Seal, O-Ring	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)	
5	232-2418	1	Board, Terminal	17	232-2398	1	Spacer, Sleeve	
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")	18			Rotor Assembly, Exciter (Includes Rectifiers)	
6			Stator, Exciter		201-2152	1	Standard	
	220-2010	1	Standard		201-2298	1	Enviromental Protected	
	220-2309	1	Enviromental Protected	19	870-0131	8	Nut, Hex (#10-32)	
	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") Used through June 1983	20	526-0008	8	Washer, Flat (#10)	
			Begin July 1983	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")	
	802-0040	4	Screw, Cap - Socket Head (1/4-20 x 2")	22	853-0008	4	Washer, Lock - ET (#10)	
			Begin July 1983	23	526-0008	4	Washer, Flat (#10)	
	850-0040	4	Washer, Lock - ET (1/4")	24	358-0069	1	Rectifier Assembly - Positive	
	526-0260	2	Washer, Flat (3/8") Used through June 1983	25	358-0070	1	Rectifier Assembly - Negative	
7	211-0256	1	Bell, End	26	515-0094	1	Key, Woodruff (#6)	
8	234-0688	2	Baffle, Air	27	805-0025	8	Bolt, Hex Head (7/16-14 x 3/4", Grade 8)	
	800-2034	6	Screw, Cap - Hex Head (M6 x 1 x 20MM)	28	526-0259	8	Washer, Flat (7/16")	
	850-2006	6	Washer, Lock (M6)	29	232-2921	1	Disk, Drive	
9			Stator (With Battery Charging Lead)	30	205-0145	1	Fan	
	220-3800	1	12 kW, Code 518 Extended Stack (12 VDC Lead)					
	220-3797	1	15 kW, Code 18 Extended Stack (12 VDC Lead)					
	220-3982	1	25 kW, Code 518 Extended Stack (12 VDC Lead)					
	220-3983	1	25 kW, Code 518 Extended Stack (24 VDC Lead)					
	220-3979	1	30 kW, Code 18 Extended Stack (12 VDC Lead)					

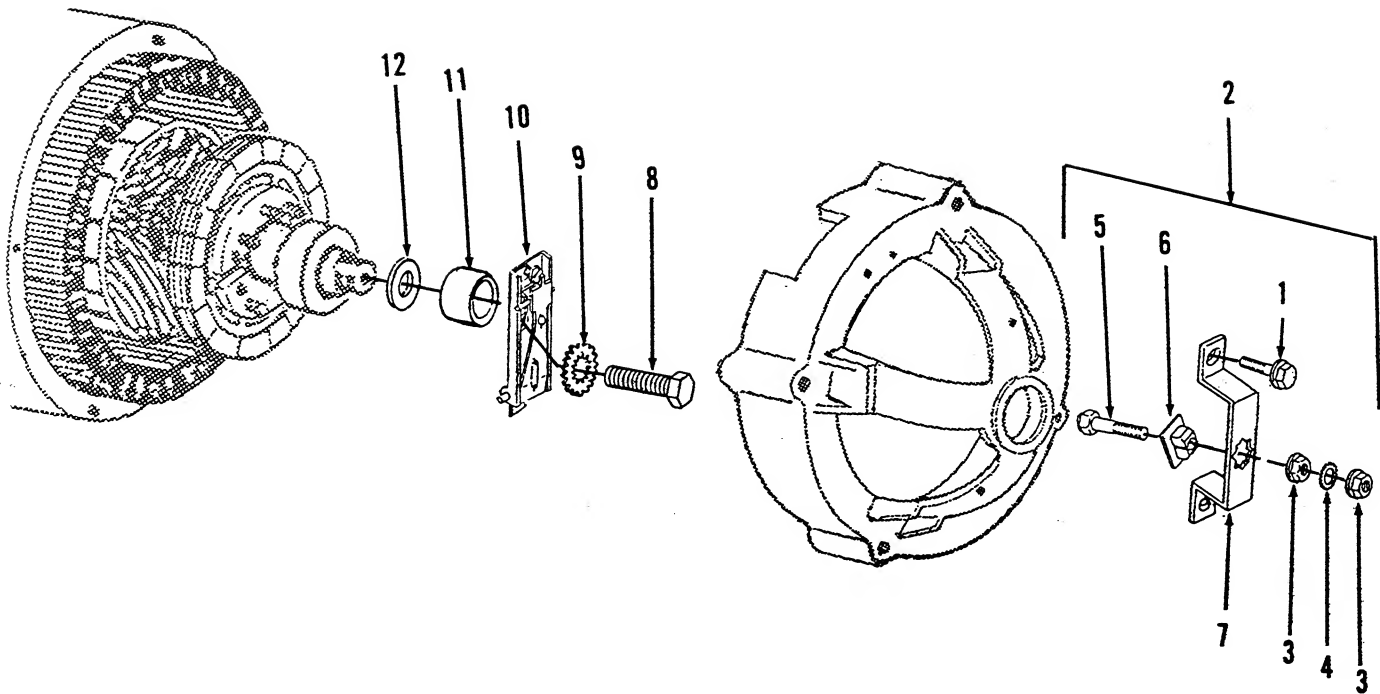
Alternator  
Stator With SAE #1 Mounting  
With Fan and Disk Drive



**Alternator  
Stator With SAE #1 Mounting  
With Fan and Disk Drive**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0003	4	Nut, Hex (3/8-16)	14			Rotor Assembly (Includes Fan, Bearing and Exciter Rotor)
2	850-0050	4	Washer, Lock - Spring (3/8")		201-2946	1	20 kW, Code 9, 15
3			Stud		201-2955	1	30 kW, Code 9, 15
	520-0055	4	3/8-16 UNC x 4"		201-2956	1	30 kW, Code 3
	520-0966	4	3/8-16 UNC x 5-13/64"		201-3059	1	40 kW, Code 9, 15
4	509-0094	1	Seal, O-Ring	15	510-0112	1	Bearing, Ball
5	232-2418	1	Board, Terminal	16	870-0284	1	Nut, Self-locking - Hex (1-1/8 - 12)
	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 5/8")	17	232-2398	1	Spacer, Sleeve
6			Stator, Exciter	18			Rotor Assembly, Exciter (Includes Rectifiers)
	220-2010	1	Standard		201-2152	1	Standard
	220-2309	1	Environmental Protected		201-2298	1	Environmental Protected
	802-0040	4	Screw, Socket Head (1/4-20 x 2")	19	870-0131	8	Nut, Hex (#10-32)
	850-0040	4	Washer, Lock - ET (1/4")	20	526-0008	8	Washer, Flat (#10)
7	211-0349	1	Bell, End	21	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
8	232-2845	1	Baffle, Air	22	853-0008	4	Washer, Lock - ET (#10)
	718-1019	4	Screw, Cap - Hex Head (M6 x 1 x 14mm)	23	526-0008	4	Washer, Flat (#10)
	850-2006	4	Washer, Lock - Spring (M6)	24	358-0069	1	Rectifier Assembly - Positive
9			Stator (SAE #1 Mounting)	25	358-0070	1	Rectifier Assembly - Negative
	220-3767	1	20 kW, Code 9	26	515-0094	1	Key, Woodruff (#6)
	220-3558	1	20 kW, Code 15	27	805-0025	8	Bolt, Hex Head (7/16-14 x 3/4", Grade 8)
	220-3532	1	30 kW, Code 3	28	526-0249	8	Washer, Flat (716")
	220-3769	1	30 kW, Code 9	29			Disk, Drive
	220-3560	1	30 kW, Code 15		232-2843	1	20 kW, 30 kW
	220-3770	1	40 kW, Code 9		232-2921	1	40 kW
	220-3806	1	40 kW, Code 15	30			Fan
					205-0132	1	20 kW, 30 kW
					205-0145	1	40 kW

## Overspeed Switch

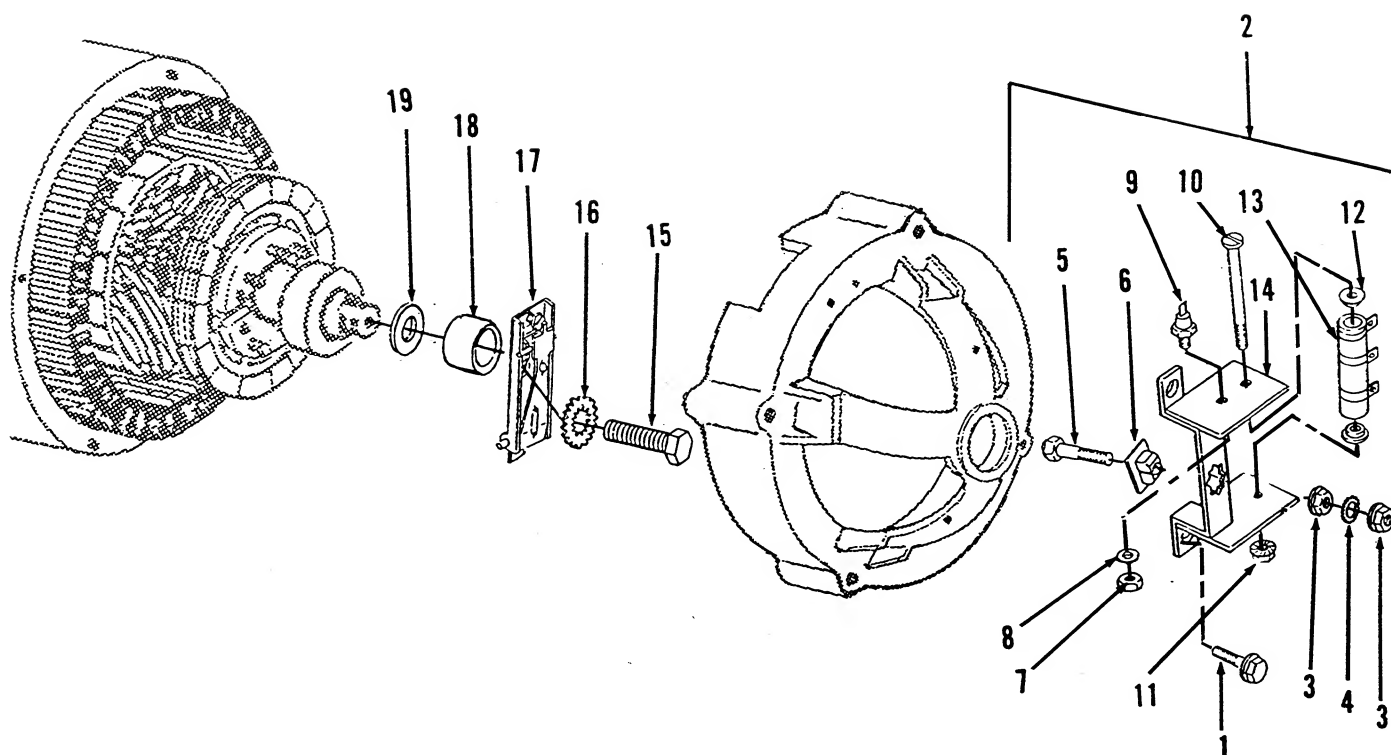


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
2	150-1446	1	Point Assembly (Includes Parts marked *)
3	870-0212	2	*Nut, Self-locking - Hex Washer Head (1/4-20)
4	853-0013	1	*Washer, Lock - ET (1/4")
5	150-0723	1	*Point, Contact
6	870-0250	1	*Nut, Insulating
7	150-1445	1	*Bracket, Mounting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
9	856-0010	1	Washer, Lock - EIT (3/8")
10	150-0717	1	Switch, Overspeed
11	150-1735	1	Spacer, Sleeve (Not used all installations)
12			Washer, Flat (Selection required)
	526-0029	2	25/64"ID x 7/8"OD x 1/16"THK
	526-0077	2	13/32"ID x 1-1/4"OD x 1/4"THK

\* - Parts included in Point Assembly.

# **Overspeed Switch With Battery Charging Components**

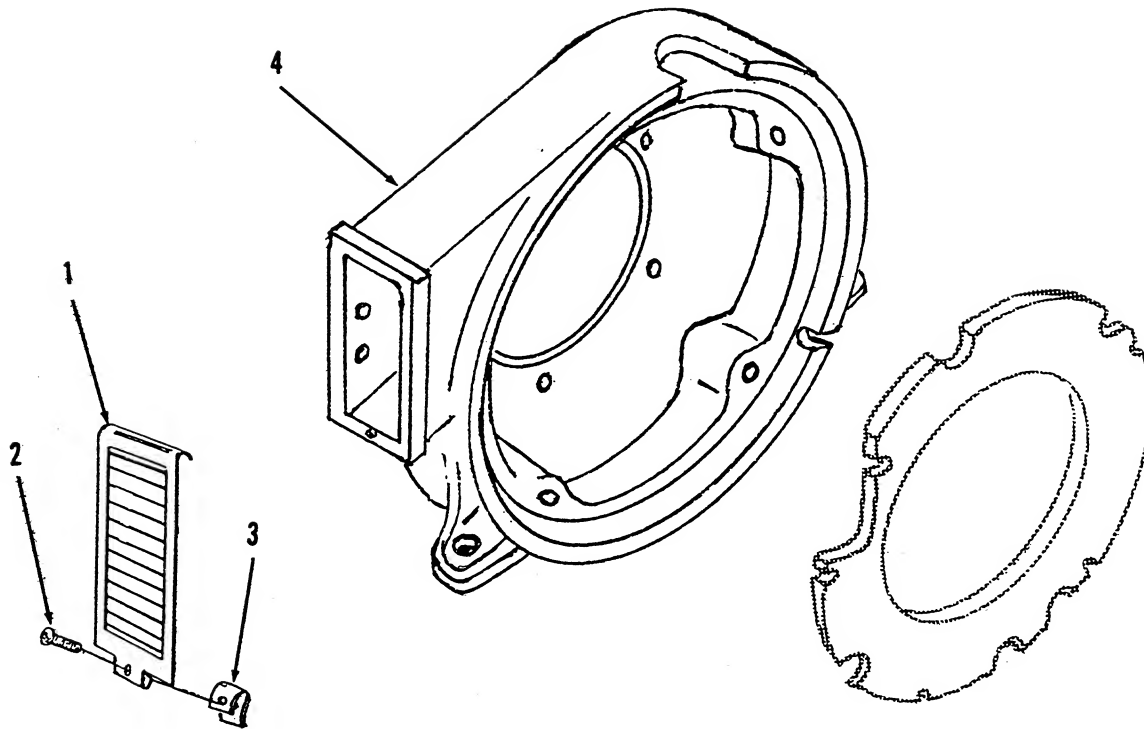


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
2			Point Assembly (Includes Parts Marked *)
	304-0763	1	12 VDC Application
	304-0764	1	24 VDC Application
3	870-0212	2	*Nut, Self-locking - Hex Washer Head (1/4-20)
4	853-0013	1	*Washer, Lock - ET (1/4")
5	150-0723	1	*Point, Contact
6	870-0250	1	*Nut, Insulating
7	868-0001	1	*Nut, Hex - Jam (1/4-28)
8	853-0013	1	*Washer, Lock - ET (1/4")
9	358-0012	1	*Rectifier, Diode
10	812-0166	1	*Screw, Machine - Round Head (1/4-20 x 5")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	870-0212	1	*Nut, Self-locking - Hex Washer Head (1/4-20)
12	304-0006	2	*Washer, Centering
13			*Resistor, Wirewound
	304-0649	1	12 VDC Application
	304-0650	1	24 VDC Application
14	150-1938	1	*Bracket, Mounting
15	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
16	856-0010	1	Washer, Lock - EIT (3/8")
17	150-0717	1	Switch, Overspeed
18	150-1735	1	Spacer, Sleeve (Not used all installations)
19			Washer, Flat (Selection required)
	526-0029	2	25/64"ID x 7/8"OD x 1/16"TH
	526-0077	2	13/32"ID x 1-1/4"OD x 1/4"TH

\* - Parts Included in Point Assembly.

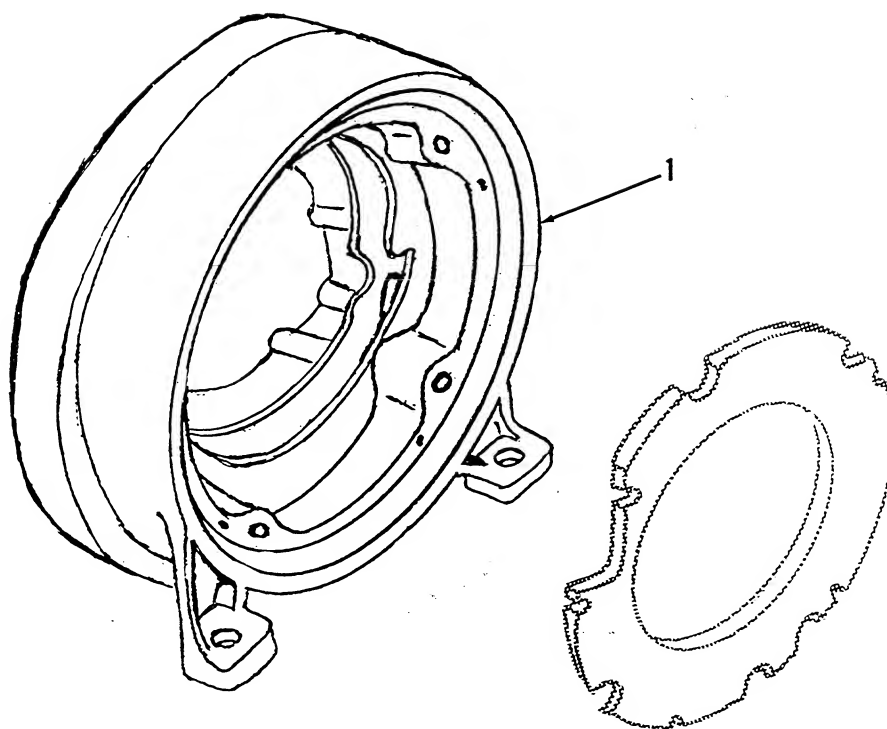
# Adapter With Upper Air Outlet



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-0493	1	Cover, Air Outlet (Includes Screw and Nut)
2	809-0046	1	Screw, Tapping - Round Head (#10 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	870-0177	1	Nut, Speed - Type "U" (#10)
4	231-0161	1	Adapter

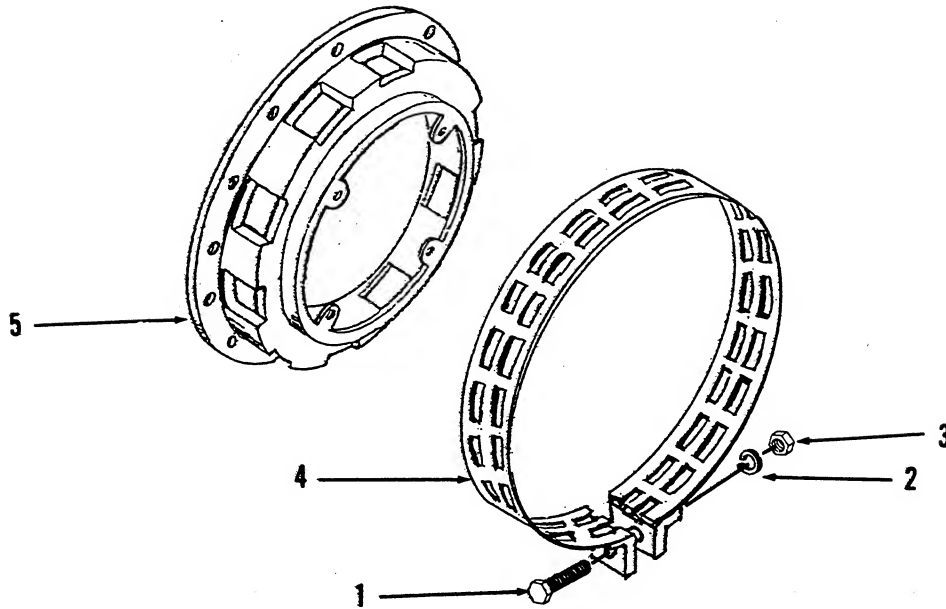
# Adapter With Lower Air Outlet



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0252	1	Adapter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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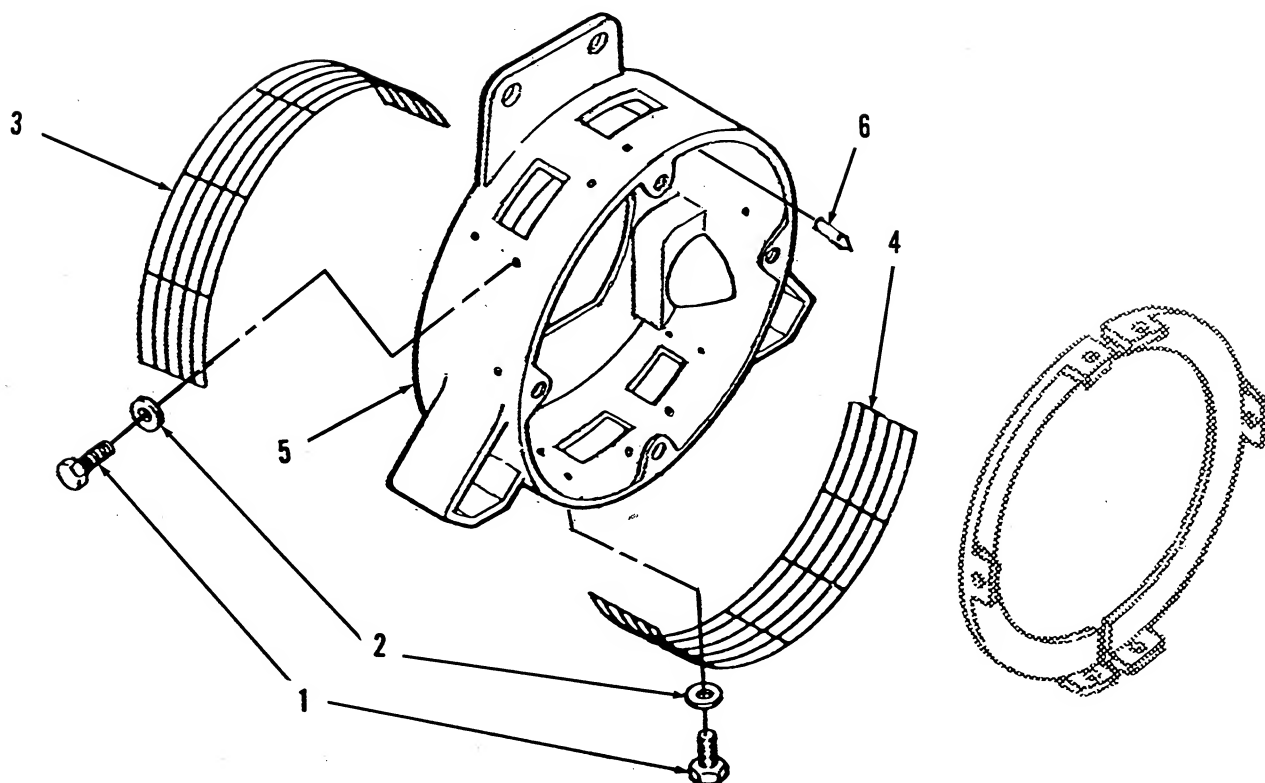
# Adapter SAE #2 to SAE #1 Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	114-0023	1	Screw, Cap Hex Head (1/4-20 x 1-1/4")	3	862-0001	1	Nut, Hex (1/4-20)
2	850-0040	1	Washer, Lock - Spring (1/4")	4	234-0529	1	Screen, Air
				5	231-0168	1	Adapter



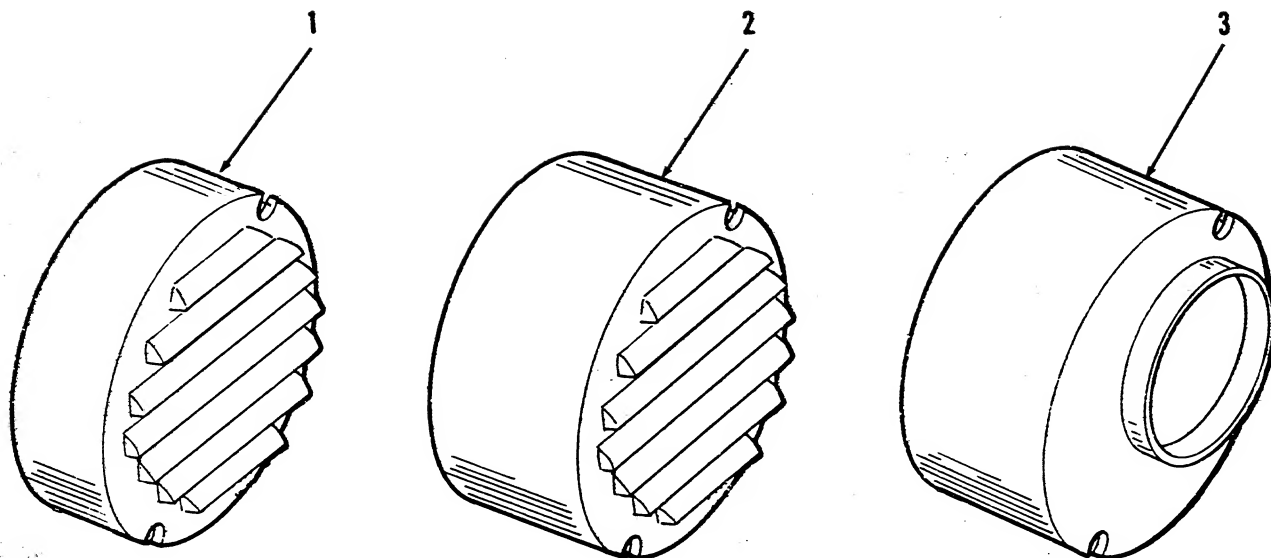
# **Adapter With Mounting Feet and Air Screens**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	718-1018	8	Screw, Cap - Hex Head (M6 x 1 x 20mm)
2	526-2080	8	Washer, Flat (M6)
3	234-0689	1	Guard, Fan - Upper
4	234-0770	1	Guard, Fan - Lower

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	231-0267	1	Adapter (Includes Indicator) 25 kW, Code 518 Extended Stack
	231-0267	1	30 kW, Code 18 Extended Stack
	231-0267-01	1	12 kW, Code 518 Extended Stack
	231-0267-01	1	15 kW, Code 18 Extended Stack
6	160-1292	1	Indicator, Timing

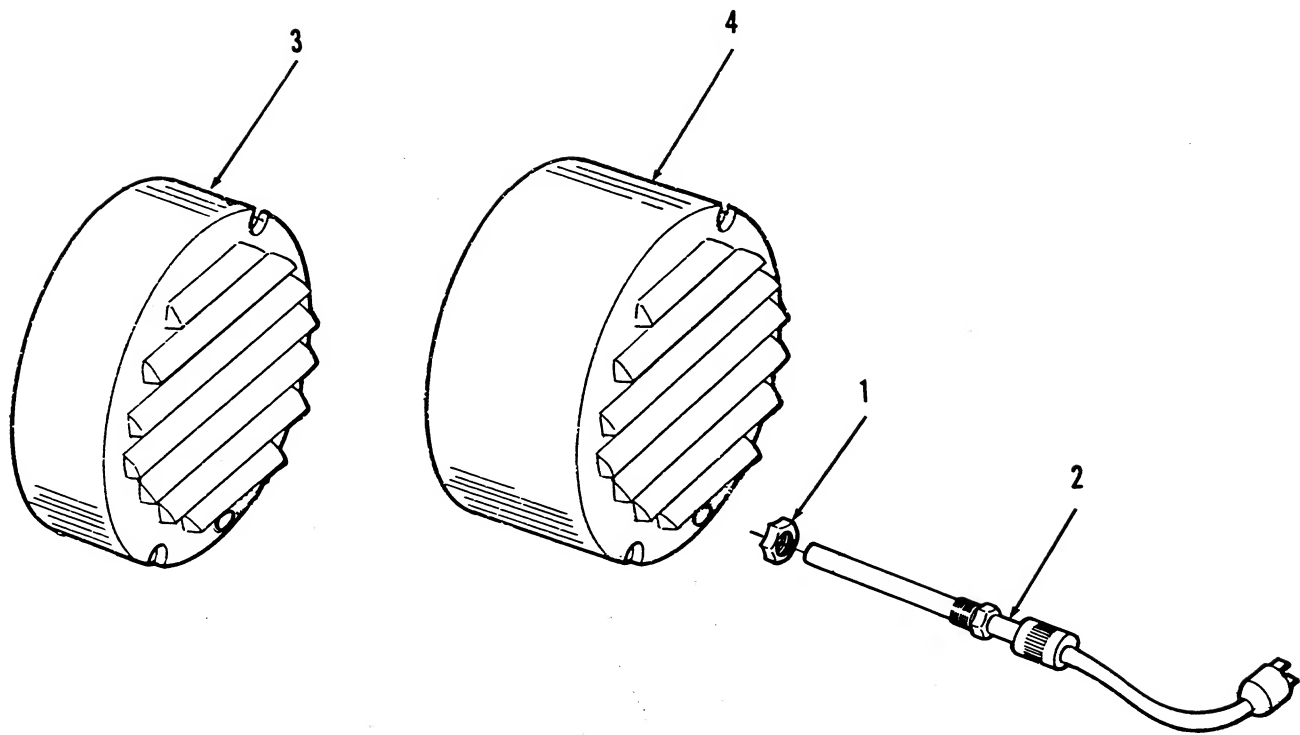
# Cover End Bell



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-0185	1	Cover, End Bell (Units without Overspeed Switch)
2	234-0498	1	Cover, End Bell (Units with Overspeed Switch)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	234-0223	1	Cover, End Bell - With Duct Flange (Units with Overspeed Switch)

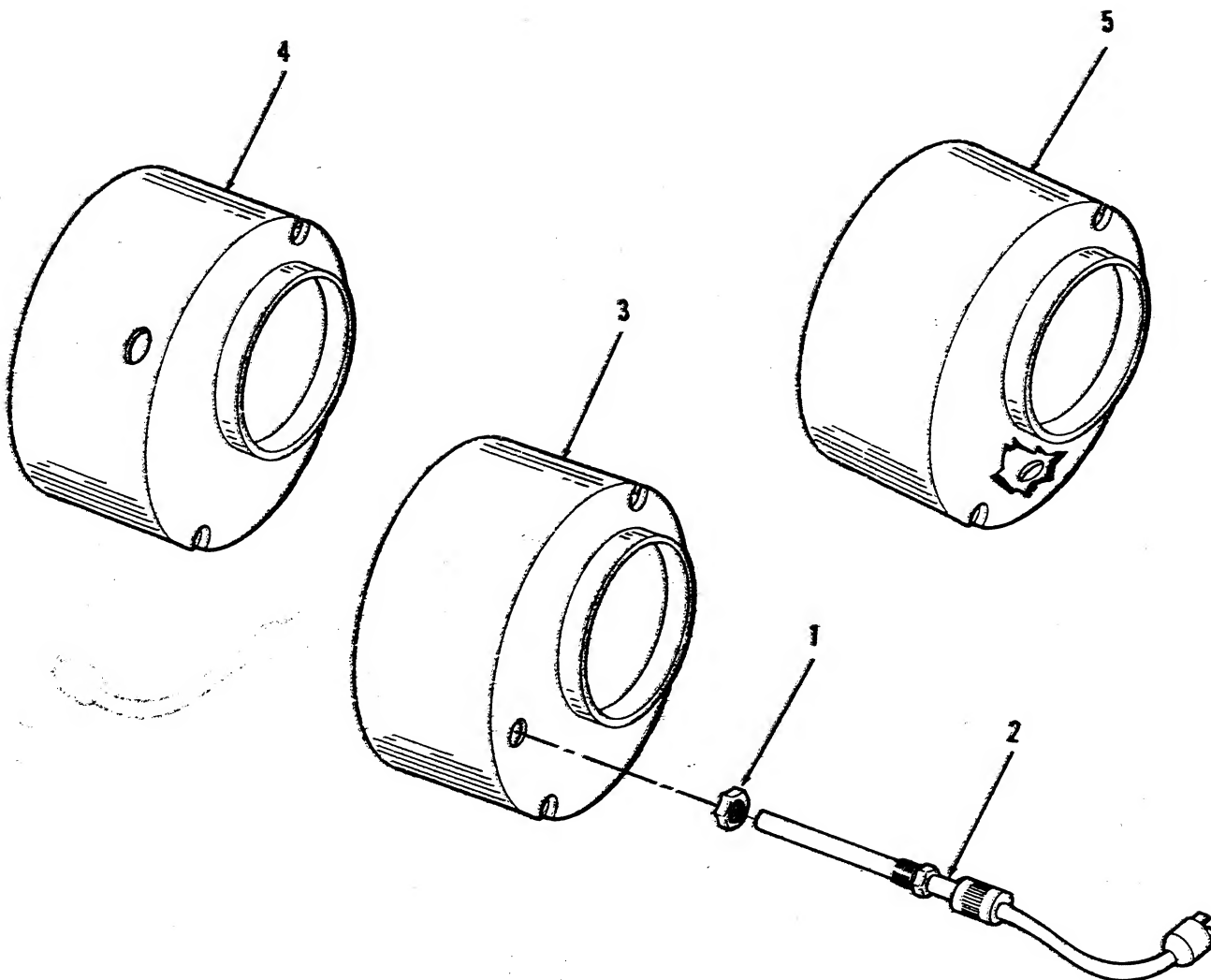
# Cover End Bell With Electrical Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special
2	333-0157	1	Heater, Electrical
3	234-0542	1	Cover, End Bell - With Heater Mounting Hole (Units without Overspeed Switch)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	234-0543	1	Cover, End Bell - With Heater Mounting Hole (Units with Overspeed Switch)

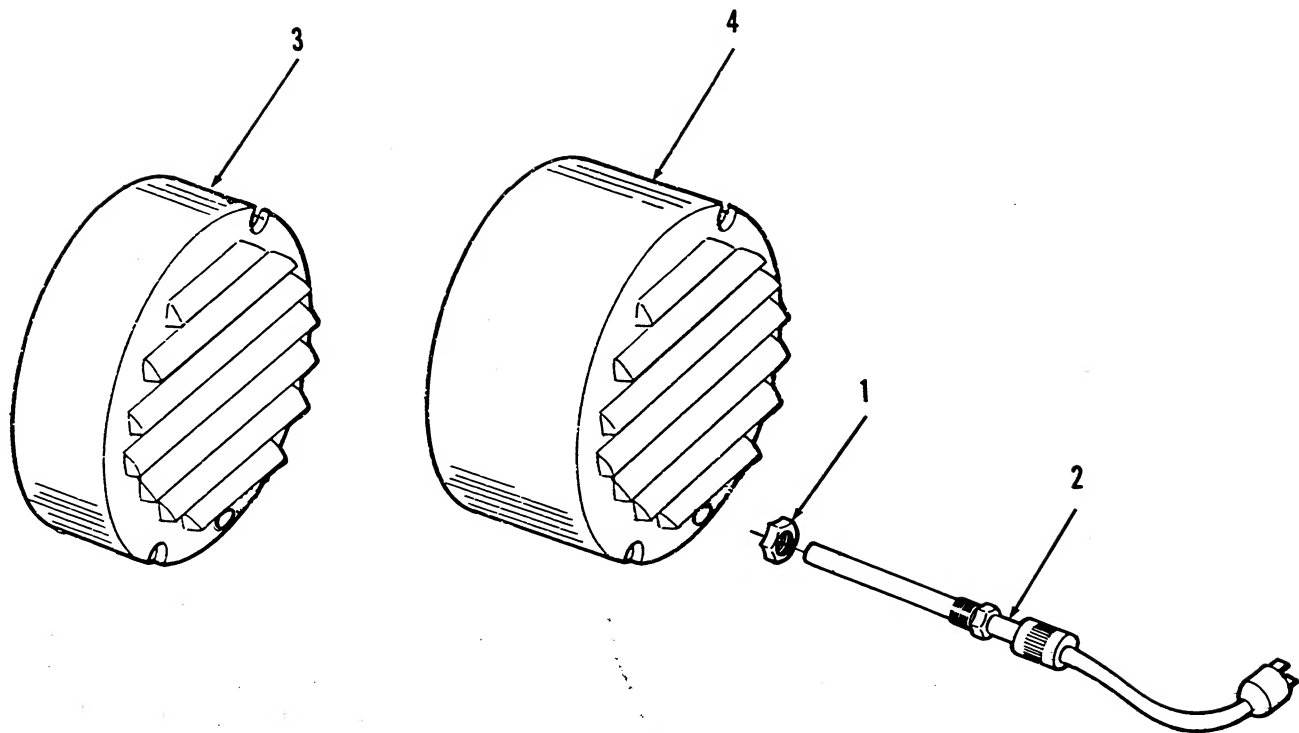
# **Cover End Bell With Duct Flange and Electrical Heater**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special
2	333-0157	1	Heater, Electrical
3	234-0541	1	Cover, End Bell - With Duct Flange and End Heater Mounting Hole (Units with Overspeed Switch)

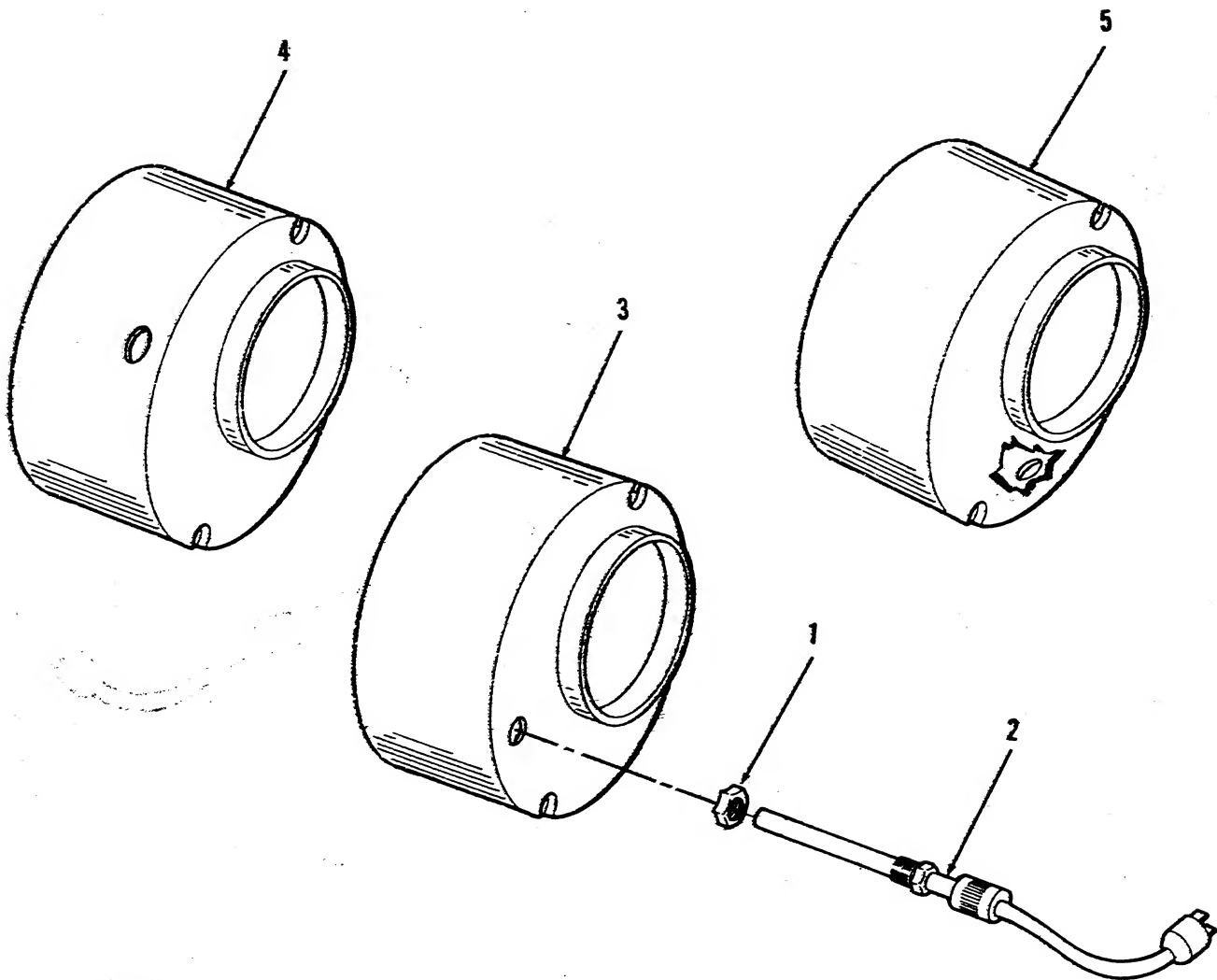
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	234-0691	1	Cover, End Bell - With Duct Flange and Upperside Heater Mounting Hole (Units With Overspeed Switch)
5	234-0771	1	Cover, End Bell - With Duct Flange and Lowerside Heater Mounting Hole (Units with Overspeed Switch)

# Cover End Bell With Electrical Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special	4	234-0543	1	Cover, End Bell - With Heater Mounting Hole (Units with Overspeed Switch)
2	333-0157	1	Heater, Electrical				
3	234-0542	1	Cover, End Bell - With Heater Mounting Hole (Units without Overspeed Switch)				

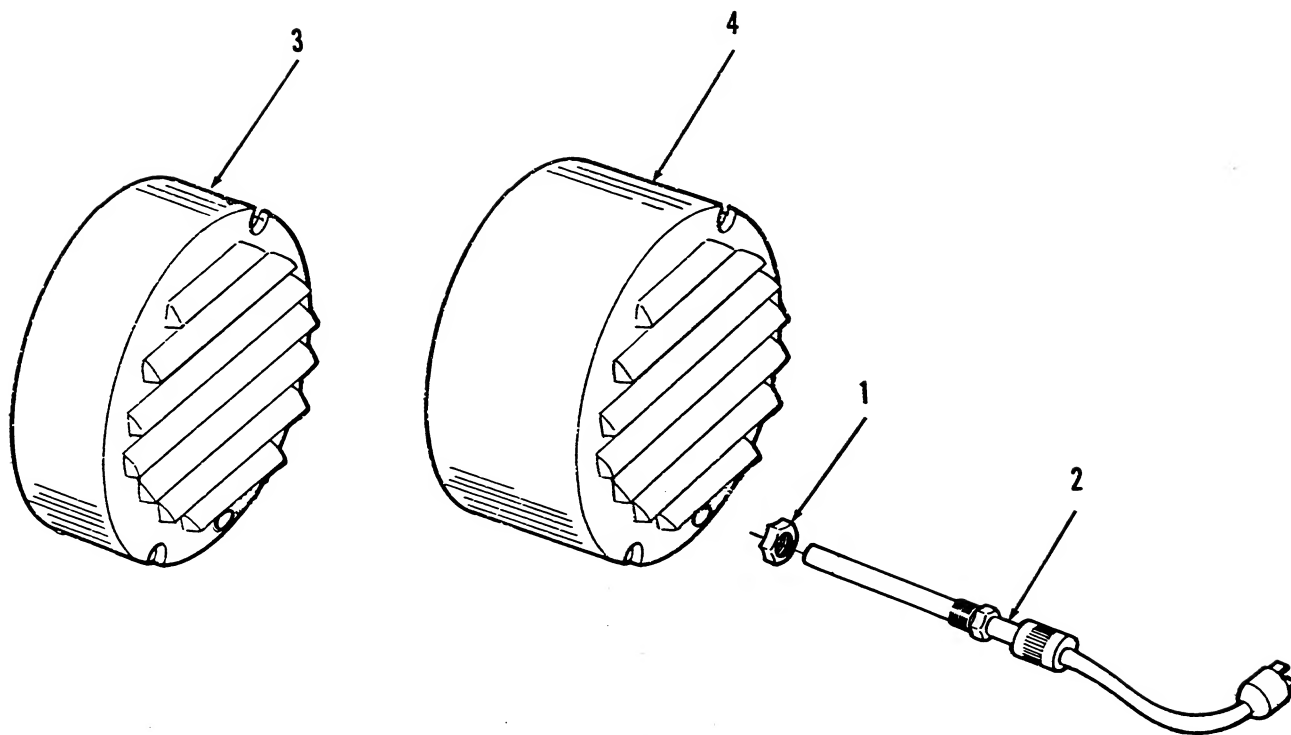
**Cover End Bell  
With Duct Flange and Electrical Heater**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special
2	333-0157	1	Heater, Electrical
3	234-0541	1	Cover, End Bell - With Duct Flange and End Heater Mounting Hole (Units with Overspeed Switch)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	234-0691	1	Cover, End Bell - With Duct Flange and Upperside Heater Mounting Hole (Units With Overspeed Switch)
5	234-0771	1	Cover, End Bell - With Duct Flange and Lowerside Heater Mounting Hole (Units with Overspeed Switch)

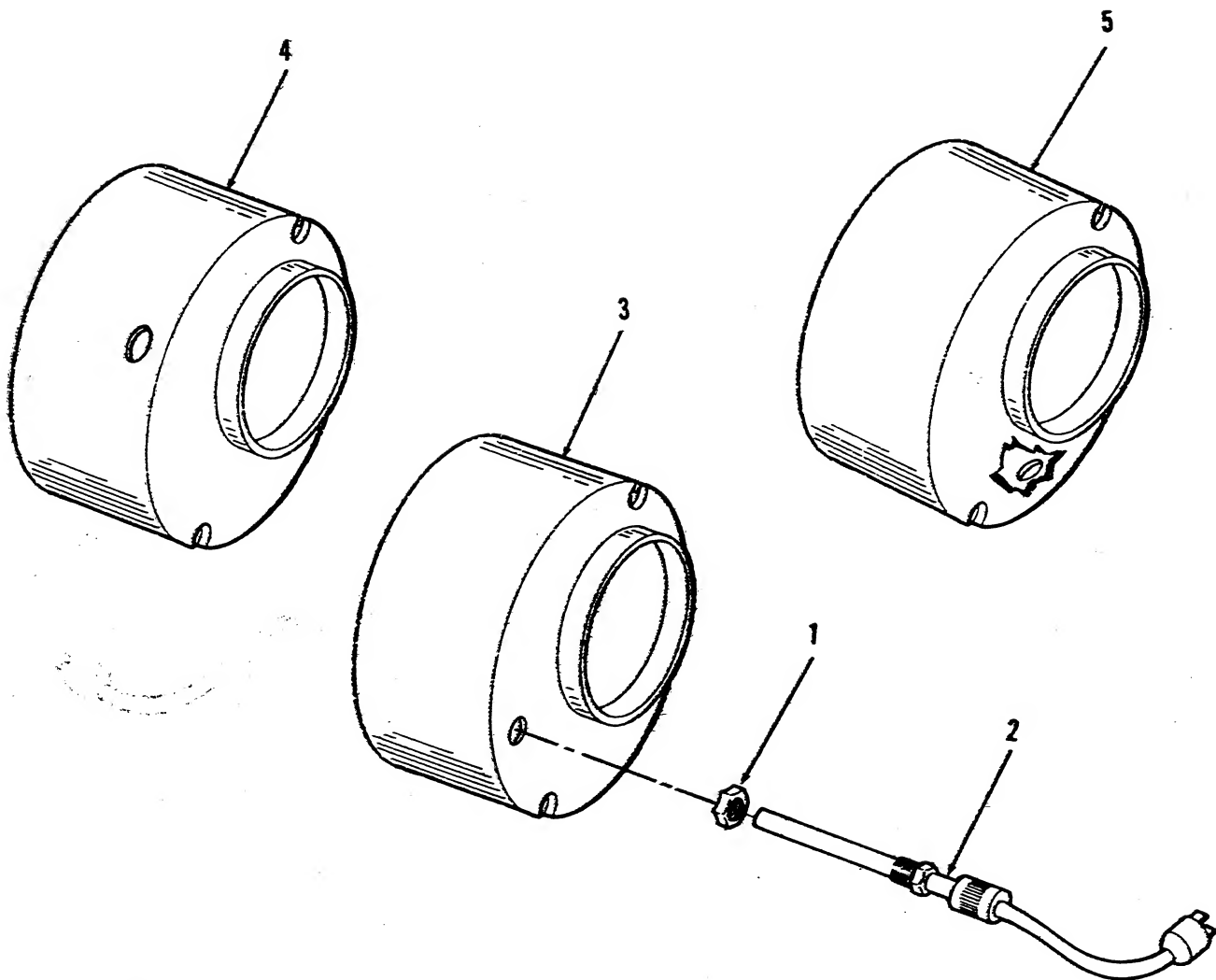
# Cover End Bell With Electrical Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special
2	333-0157	1	Heater, Electrical
3	234-0542	1	Cover, End Bell - With Heater Mounting Hole (Units without Overspeed Switch)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	234-0543	1	Cover, End Bell - With Heater Mounting Hole (Units with Overspeed Switch)

# **Cover End Bell With Duct Flange and Electrical Heater**



REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special
2	333-0157	1	Heater, Electrical
3	234-0541	1	Cover, End Bell - With Duct Flange and End Heater Mounting Hole (Units with Overspeed Switch)

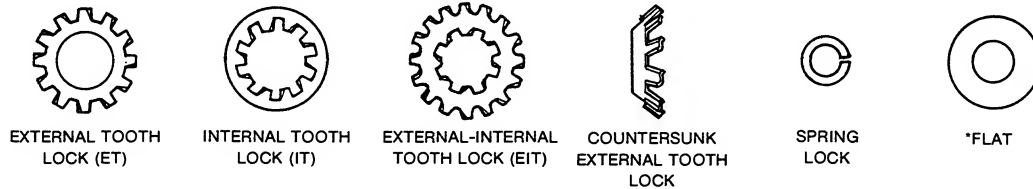
REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
4	234-0691	1	Cover, End Bell - With Duct Flange and Upperside Heater Mounting Hole (Units With Overspeed Switch)
5	234-0771	1	Cover, End Bell - With Duct Flange and Lowerside Heater Mounting Hole (Units with Overspeed Switch)



# HARDWARE IDENTIFICATION

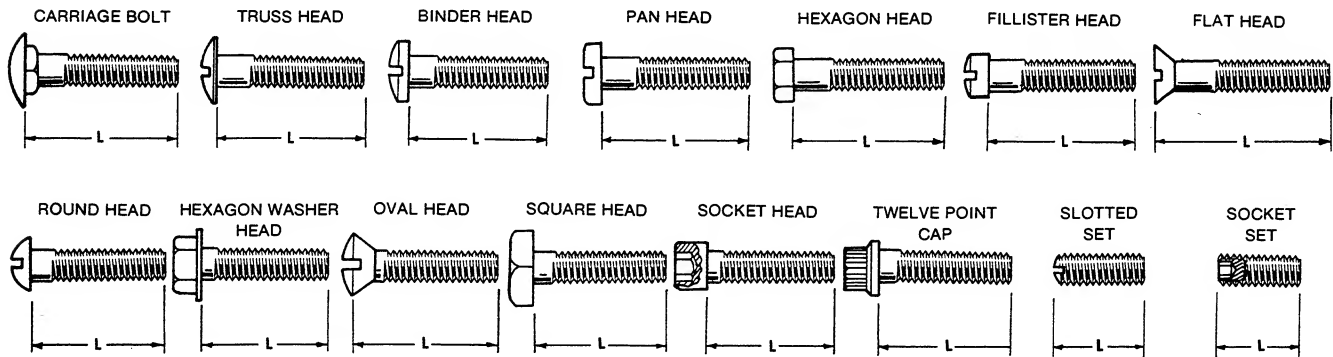
Illustrated hardware items are only for identification purposes. All hardware items listed throughout this parts catalog are steel SAE grade five (5) or lower (zinc plated with clear chromate dip) unless parts description indicates differently. All dimensions are in inches.

## WASHER TYPES



\* - Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

## BOLT AND SCREW TYPES



L - Measure length between these points.

### INTERNAL DRIVE TYPES



Nominal size (fractional diameter or screw number)  
Number of threads per inch  
Length in inches

1/4-20 x 3/4"

## NUT TYPES





**ONAN**

1400 73rd Avenue N.E.  
Minneapolis, MN 55432 (612) 574-5000

Telex 29 0476 (U.S.)  
Telex 29 0856 (outside U.S.)  
TWX 910 576-2833  
Cable ONAN